Wheelabrator Portsmouth Inc.
A Waste Management Company
3809 Elm Ave
Portsmouth, VA 23704

April 22, 2013

Virginia Department of Environmental Quality
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

Re: VPDES Permit Renewal Application Wheelabrator Portsmouth Permit No VA00089923

Ms. Woodruff,

Please find enclosed the renewal application for VPDES Permit number VA0089923 for the Wheelabrator Portsmouth Waste to Energy and Refuse Derived Fuel Facilities. The application includes EPA Form 3510-1 with associated maps, EPA Form 3510-2F with associated drainage maps and two sets of analytical data presented on Pages VII-1 and VII-2 separated by facility along with the laboratory certification sheets for the samples collected to complete the application. It should be noted that the samples from the WTE facility represent stormwater exiting the facility at the last sampling point before leaving the facility grounds, previously referred to as outfall 101 in the NNSY permit number VA0005215, a sampling point that is at a minimum tidally influenced by the Elizabeth river. Along with the forms noted above, this submission also includes the Permit Addendum, the VPDES Permit Annual Maintenance Fee Form, and the VPDES Public Notice Billing Information Form.

If you have any questions about this report, you can reach me at 393-3105.

Sincerely,

Jeff Landrum
Environmental Manager

Enclosure(s)

Please print or type in the unshaded areas only. Form Approved. OMB No. 2040-0086.

FORM 1 GENERAL

U.S. ENVIRONMENTAL PROTECTION AGENCY
GENERAL INFORMATION
Consolidated Permits Program
(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER: S F VAR 000 500 041 T/A C D

LABEL ITEMS
I. EPA I.D. NUMBER
III. FACILITY NAME
V. FACILITY MAILING ADDRESS
VI. FACILITY LOCATION

PLEASE PLACE LABEL IN THIS SPACE

RECEIVED – DEQ APR 23 2013 Tidewater Regi

GENERAL INSTRUCTIONS
If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent *(the area to the left of the label space lists the information that should appear)*, please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI *(except VI-B which must be completed regardless)*. Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of **bold-faced terms**.

SPECIFIC QUESTIONS	Mark "X" YES	NO	FORM ATTACHED	SPECIFIC QUESTIONS	Mark "X" YES	NO	FORM ATTACHED
A. Is this facility a **publicly owned treatment works** which results in a **discharge** to **waters of the U.S.**? (FORM 2A)		X		B. Does or will this facility *(either existing or proposed)* include a **concentrated animal feeding operation** or **aquatic animal production facility** which results in a **discharge** to **waters of the U.S.**? (FORM 2B)		X	
C. Is this a facility which currently results in **discharges** to **waters of the U.S.** other than those described in A or B above? (FORM 2C)		X		D. Is this a proposed facility *(other than those described in A or B above)* which will result in a **discharge** to **waters of the U.S.**? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of **hazardous wastes**? (FORM 3)		X		F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed **stationary source** which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		J. Is this facility a proposed **stationary source** which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an **attainment area**? (FORM 5)		X	

III. NAME OF FACILITY

1 SKIP: Wheelabrator Portsmouth RDF and WTE Facility

IV. FACILITY CONTACT

A. NAME & TITLE *(last, first, & title)*	B. PHONE *(area code & no.)*
2 Grego, Paul Plant Manager	(757) 393-3101

V. FACILTY MAILING ADDRESS

A. STREET OR P.O. BOX: 3 3809 Elm Ave

B. CITY OR TOWN	C. STATE	D. ZIP CODE
4 Portsmouth	VA	23704

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER: 5 3809 Elm Ave

B. COUNTY NAME:

C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE *(if known)*
6 Portsmouth	VA	23704	

EPA Form 3510-1 (8-90)

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

VII. SIC CODES *(4-digit, in order of priority)*

A. FIRST	B. SECOND
7 4953	7 4911
(specify) Refuse Systems-Solid Waste Combustors and Incinerators	*(specify)* Other Electric Power Generation

C. THIRD	D. FOURTH
7	7
(specify)	*(specify)*

VIII. OPERATOR INFORMATION

A. NAME

8 Wheelabrator Portsmouth Inc

B. Is the name listed in Item VIII-A also the owner? ☑ YES ☐ NO

C. STATUS OF OPERATOR *(Enter the appropriate letter into the answer box; if "Other," specify.)*

F = FEDERAL
S = STATE
P = PRIVATE
M = PUBLIC *(other than federal or state)*
O = OTHER *(specify)*

P

(specify)

D. PHONE *(area code & no.)*

A (757) 393-5700

E. STREET OR P.O. BOX

3809 Elm Ave

F. CITY OR TOWN

B Portsmouth

G. STATE

VA

H. ZIP CODE

23704

IX. INDIAN LAND

Is the facility located on Indian lands? ☐ YES ☑ NO

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES *(Discharges to Surface Water)*	D. PSD *(Air Emissions from Proposed Sources)*
9 N VA0089223	9 P 61018

B. UIC *(Underground Injection of Fluids)*	E. OTHER *(specify)*
9 U	9 PBR-500 *(specify)* VA Solid Waste

C. RCRA *(Hazardous Wastes)*	E. OTHER *(specify)*
9 R VAD 980 690 846	9 TRO61018 *(specify)* Title V Air Permit

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers, and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS *(provide a brief description)*

Wheelabrator Portsmouth is a combination of 2 facilities, the Refuse Derived Fuel (RDF) Facility located at 2 Victory Blvd, Portsmouth, VA 23702 and the Waste to Energy (WTE) Facility located at 3809 Elm Ave., Portsmouth, VA 23704. At the RDF facility municipal solid waste is unloaded, separated and temporarily stored on the facilities covered 1.3 acre tipping floor. The MSW is fed into the operational processing lines where the MSW is shredded into RDF. Following the shredding process the material passes through magnetic separators removing ferrous metal for recycling. The processed RDF is then transferred to the WTE facility via conveyor where it is stored in the 4,000 ton capacity waste pit or is directly fed into one of the four operational boilers to produce steam and electricity. The RDF facility receives and process approximately 1500-3700 tons of non-hazardous municipal solid waste per day.

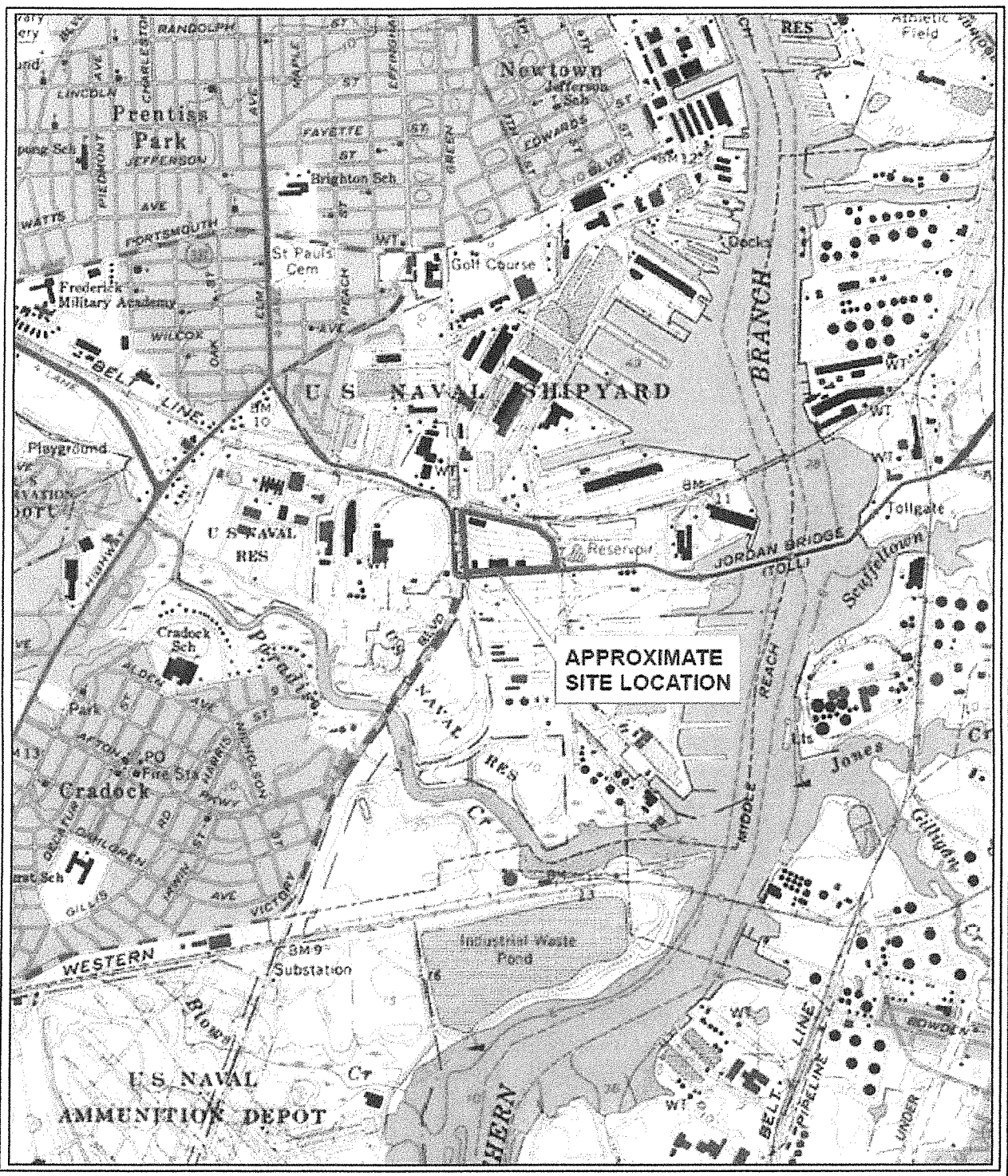
XIII. CERTIFICATION *(see instructions)*

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

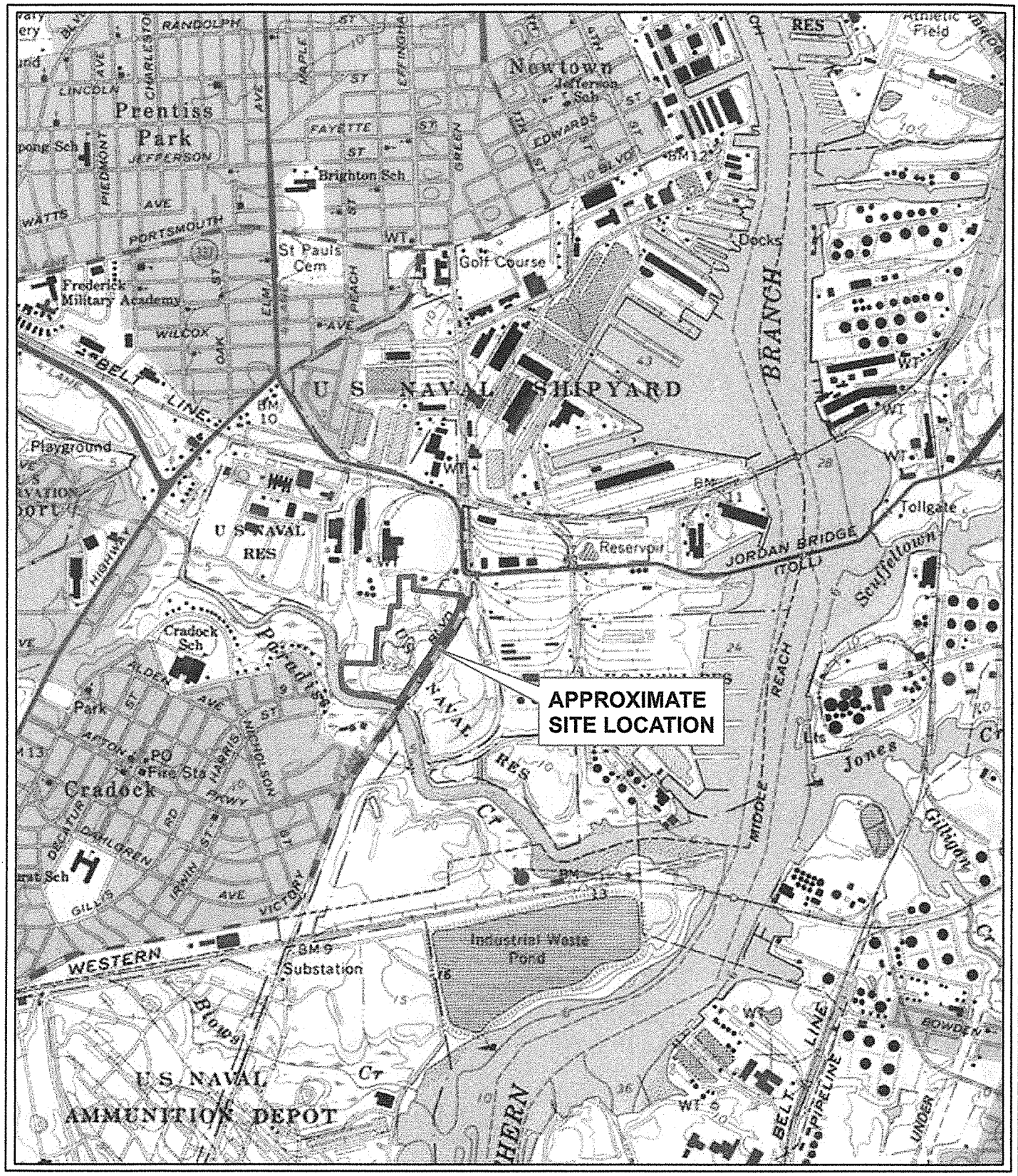
A. NAME & OFFICIAL TITLE *(type or print)*	B. SIGNATURE	C. DATE SIGNED
Paul Grego Plant Manager	Paul Grego	4/22/13

COMMENTS FOR OFFICIAL USE ONLY

C



BROWN AND CALDWELL *151 Campanelli Drive, Suite B* *Middleborough, Massachusetts, 02346* *Tel. (508) 923-0879 Fax. (508) 923-0894*	**FIGURE 1** **SITE LOCATION MAP** Municipal Solid Waste To Energy Facility Portsmouth, Virginia Prepared for: Wheelabrator Portsmouth, Inc.	N 0 500 1,000 2,000 Feet	Date: 10/28/2010 Project: 139754 Scale: 1" = 2000' File: Site Locus



BROWN AND CALDWELL
151 Campanelli Drive, Suite B
Middleborough, Massachusetts, 02346
Tel. (508) 923-0879 Fax. (508) 923-0894

FIGURE 1
SITE LOCATION MAP

Refuse Derived
Fuel Facility
Portsmouth, Virginia

Prepared For:
Wheelabrator Portsmouth, Inc.

Date: 8/9/2011

Project: 139754

Scale: 1" = 2000'

File: RDF Site Locus

Please print or type in the unshaded areas only.

EPA ID Number (*copy from Item 1 of Form 1*)
VAR 000 500 041

Form Approved. OMB No. 2040-0086
Approval expires 5-31-92

FORM 2F NPDES

U.S. Environmental Protection Agency
Washington, DC 20460

Application for Permit to Discharge Storm Water Discharges Associated with Industrial Activity

Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

I. Outfall Location

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. Outfall Number (*list*)	B. Latitude			C. Longitude			D. Receiving Water (*name*)
001	36	48	14.4216	-76	18	26.2476	Paradise Creek
101	36	48	30.9882	-76	17	59.7546	Elizabeth River

II. Improvements

A. Are you now required by any Federal, State, or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

1. Identification of Conditions, Agreements, Etc.	2. Affected Outfalls		3. Brief Description of Project	4. Final Compliance Date	
	number	source of discharge		a. req.	b. proj.
NA					

B: You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

III. Site Drainage Map

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfalls(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage of disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which received storm water discharges from the facility.

Continue on Page 2

Continued from the Front

IV. Narrative Description of Pollutant Sources

A. For each outfall, provide an estimate of the area (include units) of imperious surfaces (including paved areas and building roofs) drained to the outfall, and an estimate of the total surface area drained by the outfall.

Outfall Number	Area of Impervious Surface *(provide units)*	Total Area Drained *(provide units)*	Outfall Number	Area of Impervious Surface *(provide units)*	Total Area Drained *(provide units)*
001	9.5 Acres	13.2 Acres	002	12.1 Acres	15.2 Acres

B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact by these materials with storm water runoff; materials loading and access areas, and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

- Please see attached document

C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

Outfall Number	Treatment	List Codes from Table 2F-1
001	- Please see attached document	1-T, 1-U,
101	- Please see attached document	

V. Nonstormwater Discharges

A. I certify under penalty of law hat the outfall(s) covered by this application have been tested or evaluated for the presence of nonstormwater discharges, and that all nonstormwater discharged from these outfall(s) are identified in either an accompanying Form 2C or From 2E application for the outfall.

Name and Official Title *(type or print)*	Signature	Date Signed
Paul Grego Plant Manager	Paul Grego	4/22/13

B. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test.

All water connections are known from original design drawings and schematics. Routine ispections have verified that no non-stormwater discharges enter the system under normal daily plant operations.

VI. Significant Leaks or Spills

Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

01/17/2013 WTE facility APC second floor(contained onsite) - Hazardous Fly Ash Spill - 100 pounds
08/09/2012 WTE facility APC second floor(contained onsite) - Hazardous Fly Ash Spill - 150 pounds
03/01/2012 WTE facility APC second floor(contained onsite) - Hazardous Fly Ash Spill - 50 pounds
02/28/2012 WTE facility Water Treatment - Sulfuric Acid(Contained on Site) - 350 gallons
05/20/2011 WTE facility APC second floor(contained onsite) - Hazardous Fly Ash Spill - 700 pounds
05/09/2011 WTE facility APC second floor(contained onsite) - Hazardous Fly Ash Spill - 360 pounds
04/06/2011 WTE facility APC first floor(contained onsite) - Hazardous Fly Ash Wash Water Spill - 200 gallons
03/15/2011 WTE facility APC first floor(contained onsite) - Hazardous Fly Ash Wash Water Spill - 25 gallons
02/09/2011 WTE facility APC second floor(contained onsite) - Hazardous Fly Ash Spill - 600 pounds

At the RDF facility complex, sources of exposure include oil drips and leaks from vehicle operations at the facility. To prevent stormwater impact the facility prevents parking directly over storm drains and spill control and containment equipment is made available for use at strategic locations throughout the complex. The facility also conducts periodic vehicle inspections and maintenance on the vehicles to reduce the potential of these events occurring. The results of inspections and identified leaks are documented in the company's internal spill reports. Above ground fuel and lubricating oil tanks were installed in 2011. The fueling/lubricating area for yellow-iron mobile equipment at the RDF facility is behind a bermed area to prevent inadvertent run-off of spilled material should a spill occur. Drivers of waste hauling vehicles are instructed to keep the doors dogged and secured until they have entered the RDF facility tipping floor. All waste conveyed from the RDF facility to the WTE facility is conducted via enclosed conveyor systems. All waste handling operations at the RDF facility occur within the structure of the facility, with no anticipated contact by precipitation.

At the WTE facility, similar concerns exist for vehicle operations and associated leaks from the equipment; as such spill equipment is also placed around the facility to combat these unforeseen events. As with the RDF facility, the WTE facility also conducts periodic vehicle inspections and maintenance on the vehicles. Inadvertent releases are quickly cleaned up and reported using the company's established reporting protocol. Additionally the facility conducts bulk chemical offloading for pellet lime, fuel oil, sulfuric acid, sodium hydroxide, cooling tower and boiler water treatment chemicals. With the exception of the fuel oil, sulfuric acid and pellet lime silo, all remaining chemical tanks are within the structures of the facility. Sulfuric acid, sodium hydroxide, and fuel oil unloading operations are conducted within offloading containment areas to prevent a release to stormwater conveyance devices in the event of a spill. Additional precautions are taken for boiler and cooling tower treatment chemical unloading practices including, covering of adjacent storm drains, pre and post unloading check sheets and a requirement to have facility personnel in the immediate vicinity of the unloading event until complete. Additionally the facility conducts live loading of ash associated with the post combustion process. The area in which the loading occurs is sloped in such a way as to direct precipitation back into the facility should it come into contact with residual material on the ground. This rain water is reused in the facility process to the maximum extent practicable or it is pumped to the retention ponds for later reuse or discharge to the POTW as needed. Staged trailers containing ash for disposal at the regional landfill are stored on the former coal pad. Additionally overloaded or excessively wet trailers are discharged in the decanting pit as needed. The former coal pad is surrounded by a V-Ditch which prevents impact to adjacent storm water conveyance devices. The V-Ditch discharges to the retention pond which is operated as noted above.

For both facilities a third party licensed pest management group conducts regular inspections of the facility utilizing bait stations to contain/control vectors. A third party grounds maintenance group conducts herbicide/fertilizer applications in accordance with manufactures recommendations as needed.

Outfall 001 - At the RDF facility oil absorbent booms are placed at the outfall basin and are inspected / changed regularly. Curb inlets are protected with screens to prevent solids from entering the conveyance systems. Retention elements are in place and are inspected / cleaned as needed to function normally. The facility was designed with shallow grades in paved areas to reduce flow velocities. Fuel transfer areas at the RDF facility are contained with a berm and a spill isolation valve is in place should a release occur. Additionally waste handling operations occur indoors, with no direct exposure to precipitation. Along with the structural controls, the facility conducts regular inspections to ensure continued compliance. Spill kits are staged in strategic locations. Street sweeping and blowing debris evaluations/collection occur at regular intervals. All solids collected during the street sweeping or retention element cleanouts are processed via the RDF facility for disposal.

Outfall 101 - At the WTE facility permanent storm drain protection devices are installed at affected locations with high risk for offsite release of non-storm water material. Portable protection devices are used during the bulk chemical unloading process. Street sweeping is also conducted at regular intervals. All exterior liquid chemical/fuel storage tanks are contained within secondary containments. The fuel oil storage tank containments drain to an oil water separator with ultimate "clean water" discharge to the POTW. Spill kits are strategically placed throughout the facility. The facility conducts regular inspections to ensure continued compliance. The WTE settling ponds are cleaned on as needed basis removing non-hazardous solids for proper disposal at a properly permitted landfill via tractor trailer. Settling pond waste water is normally discharged to the POTW if it cannot be reused in the WTE process.

EPA ID Number *(copy from Item 1 of Form 1)*
VAR 000 500 041

VII. Discharge Information

A, B, C, & D: See instructions before proceeding. Complete one set of tables for each outfall. Annotate the outfall number in the space provided.
Table VII-A, VII-B, VII-C are included on separate sheets numbers VII-1 and VII-2.

E. Potential discharges not covered by analysis – is any toxic pollutant listed in table 2F-2, 2F-3, or 2F-4, a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☐ Yes (*list all such pollutants below*) ☑ No (*go to Section IX*)

VIII. Biological Toxicity Testing Data

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ Yes (*list all such pollutants below*) ☑ No (*go to Section IX*)

IX. Contract Analysis Information

Were any of the analyses reported in Item VII performed by a contract laboratory or consulting firm?

☑ Yes (*list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below*) ☐ No (*go to Section X*)

A. Name	B. Address	C. Area Code & Phone No.	D. Pollutants Analyzed
Air Water and Soil Labs	2109 North Hamilton Street Richmond, Virginia 23230	804.358.8295	All except pH

X. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name & Official Title (*Type Or Print*)	B. Area Code and Phone No.
Paul Grego Plant Manager	(757) 393-3101
C. Signature	D. Date Signed
Paul Grego	4/22/13

EPA ID Number (*copy from Item 1 of Form 1*)
VAR 000 500 041

Form Approved. OMB No. 2040-0086
Approval expires 5-31-92

VII. Discharge information *(Continued from page 3 of Form 2F)*

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
Oil and Grease	5.4 mg/L	N/A	5.4 mg/L	N/A	1	Truck Traffic,Building Construction
Biological Oxygen Demand (BOD5)	<2.0 mg/L	N/A	<2.0 mg/L	N/A	1	Truck Traffic,Building Construction
Chemical Oxygen Demand (COD)	40.0 mg/L	N/A	40.0 mg/L	N/A	1	Truck Traffic,Building Construction
Total Suspended Solids (TSS)	9.7 mg/L	N/A	9.7 mg/L	N/A	1	Truck Traffic,Building Construction
Total Nitrogen	1.12 mg/L	N/A	1.12 mg/L	N/A	1	Truck Traffic,Building Construction
Total Phosphorus	.16 mg/L	N/A	.16 mg/L	N/A	1	Truck Traffic,Building Construction
pH	Minimum 6.86	Maximum N/A	Minimum 6.86	Maximum N/A	1	Truck Traffic, Building Construction

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
N/A						

Continue on Reverse

Continued from the Front

Part C - List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
Total Fe	4.92	N/A	4.92	N/A	1	Truck Traffic, Building Construction

Part D – Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. Date of Storm Event	2. Duration of Storm Event *(in minutes)*	3. Total rainfall during storm event *(in inches)*	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event *(gallons/minute or specify units)*	6. Total flow from rain event *(gallons or specify units)*
N/A	N/A	N/A	N/A	N/A	N/A

7. Provide a description of the method of flow measurement or estimate.

N/A

EPA ID Number (*copy from Item 1 of Form 1*)
VAR 000 500 041

Form Approved. OMB No. 2040-0086
Approval expires 5-31-92

VII. Discharge information *(Continued from page 3 of Form 2F)*

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
Oil and Grease	14.8 mg/L	N/A	14.8 mg/L	N/A	1	RDF Truck Traffic,Bldg Construction
Biological Oxygen Demand (BOD5)	>62.5 mg/L	N/A	>62.5 mg/L	N/A	1	RDF Truck Traffic,Bldg Construction
Chemical Oxygen Demand (COD)	447 mg/L	N/A	447 mg/L	N/A	1	RDF Truck Traffic,Bldg Construction
Total Suspended Solids (TSS)	114 mg/L	N/A	114 mg/L	N/A	1	RDF Truck Traffic,Bldg Construction
Total Nitrogen	10.8 mg/L	N/A	10.8 mg/L	N/A	1	RDF Truck Traffic,Bldg Construction
Total Phosphorus	0.89 mg/L	N/A	0.89 mg/L	N/A	1	RDF Truck Traffic,Bldg Construction
pH	Minimum 6.61	Maximum N/A	Minimum 6.61	Maximum N/A	1	RDF Truck Traffic,Bldg Construction

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
TPH-GRO	<0.5 mg/L	N/A	<0.5 mg/L	N/A	1	RDF Truck Traffic
TPH-DRO	5.7 mg/L	N/A	5.7 mg/L	N/A	1	RDF Truck Traffic

Continued from the Front

Part C - List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
N/A						

Part D – Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. Date of Storm Event	2. Duration of Storm Event *(in minutes)*	3. Total rainfall during storm event *(in inches)*	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event *(gallons/minute or specify units)*	6. Total flow from rain event *(gallons or specify units)*
N/A	N/A	N/A	N/A	N/A	N/A

7. Provide a description of the method of flow measurement or estimate.

N/A

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Certificate of Analysis

Final Report

Laboratory Order ID 13030226

Client Name:	Wheelabrator Technologies 3809 Elm Avenue Portsmouth, VA 23704	Date Received: Date Issued:	March 14, 2013 March 26, 2013
Submitted To:	Jeff Landrum	Project Number:	NA
Client Site I.D.:	WTE SW Permit Sample	Purchase Order:	NA

Sample Summary List

Laboratory Sample ID	Sample ID	Sample Date	Receive Date
13030226-001	5886	03/12/2013	03/14/2013

Ted Soyars
Laboratory Manager

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

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Certificate of Analysis

Final Report

Laboratory Order ID 13030226

Client Name: Wheelabrator Technologies
3809 Elm Avenue
Portsmouth, VA 23704

Date Received: March 14, 2013
Date Issued: March 26, 2013

Submitted To: Jeff Landrum
Project Number: NA

Client Site I.D.: WTE SW Permit Sample
Purchase Order: NA

Analytical Results

Sample I.D.: 5886
Laboratory Sample I.D.: 13030226-001
Date/Time Sampled: 03/12/13 07:54

Parameter	Method	Sample Results	Qual	Rep Limit	Samp Prep Date/Time	Analysis Date/Time	Analyst
Iron	EPA200.7/R4.4	4.92 mg/L		0.01	03/18/2013 15:15	03/22/2013 16:42	JPV
COD	SM18/5220D	40.0 mg/L		10	03/20/2013 09:18	03/20/2013 09:18	RAC2
Oil and Grease	EPA1664A	5.4 mg/L		5	03/19/2013 09:30	03/19/2013 09:30	RAC2
TSS	SM18/2540D	9.7 mg/L		1	03/16/2013 12:35	03/16/2013 12:35	HWT

Summary of Analytical QC Batches

QC Batch ID	Method	Sample List		
QC130319014	SM18/2540D	13030226-001		
QC ID	Parameter		Qualifier	Comments
LCSD	TSS		P	
QC130320034	EPA1664A	13030226-001		
QC130321015	SM18/5220D	13030226-001		
QC ID	Parameter		Qualifier	Comments
MS	COD		M	Matrix interference; diluted matrix spike within QC limits
MSD	COD		M	Matrix interference; diluted matrix spike within QC limits
QC130325004	EPA200.7/R4.4	13030226-001		

Qualifier Defination

Qualifier	Description
M	Matrix spike recovery is outside established acceptance limits.
P	Duplicate analysis does not meet the acceptance criteria for precision

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Analysis Certifications Report

Client Name: Wheelabrator Technologies
Client Site ID: WTE SW Permit Sample
Submitted To: Jeff Landrum

Date Issued: 03/26/2013

Order ID: 13030226

Parameter	Method	VA-NP
COD	SM18/5220D	X
Iron	EPA200.7/R4.4	X
Oil and Grease	EPA1664A	X
TSS	SM18/2540D	X

"X" denotes that the associated parameter is certified or accredited under the program indicated in the column header.

VA-NP = VELAP Non-Potable Water: Virginia DGS Division of Consolidated Laboratory Services(460021)

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(804)358-8297 FAX

AIR WATER & SOIL LABORATORIES, INC.

CHAIN OF CUSTODY

CLIENT NAME: Wheelabrator Portsmouth	PROJECT NAME: SW Permit Sample
CLIENT CONTACT: Jeff Landrum	SITE NAME: WTE
CLIENT ADDRESS: 3805 [illegible] Ave Portsmouth VA	PROJECT NUMBER:
CLIENT PHONE NUMBER: 757 393 3105	P.O. NUMBER:
CLIENT FAX NUMBER: EMAIL: jlandrum@[illegible]	REGULATORY AUTHORITY: DEQ
Is sample for compliance reporting? (YES) NO — Is sample from a chlorinated supply? YES (NO)	PWS I.D. #:
SAMPLER NAME (PRINT): Jeff Landrum — SAMPLER SIGNATURE: [signature]	Turn Around Time: 10 Day(s)

Have ammonia and TKN samples been verified to be dechlorinated at the time of sampling?: YES NO

CLIENT SAMPLE I.D.	Composite Start Date	Composite Start Time	Grab Date or Composite Stop Date	Grab Time or Composite Stop Time	Number of Containers	Grab	Composite	Field Filtered (Dissolved Metals)	Ground Water / Surface Water	Waste Water / Storm Water	Drinking Water	Soil	Solids	Other	TSS	COD (H_2SO_4)	O&G (HCl)	Total Fe (HNO_3)				COMMENTS
1) 5886?	—	—	3/12/13	0754	4	✓				✓					✓	✓	✓	✓				Quote I.D.:
2)																						
3)																						
4)																						
5)																						
6)																						
7)																						
8)																						
9)																						
10)																						

PLEASE NOTE PRESERVATIVE(S) or PUMP RATE (L/min)

RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME
[signature]	3-13-13 0826	[signature]	3-13-13 826
COURIER		[signature]	14 MARCH 2013 13.30

QC Data Package: Level I ☐ Level II ☐ Level III ☐ Level IV ☐

LAB USE ONLY — COOLER TEMP 5.7 °C

13030226
SPSA-PP
WTE SW Permit Sample
13030226
DUE: 10 Days
Recd: 03/14/13

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Certificate of Analysis

Final Report

Laboratory Order ID 13030225

Client Name:	Wheelabrator Technologies 3809 Elm Avenue Portsmouth, VA 23704	Date Received: Date Issued:	March 14, 2013 March 21, 2013
Submitted To:	Jeff Landrum	Project Number:	NA
Client Site I.D.:	RDF	Purchase Order:	NA

Sample Summary List

Laboratory Sample ID	Sample ID	Sample Date	Receive Date
13030225-001	Outfall 001 #5884	03/12/2013	03/14/2013

Ted Soyars
Laboratory Manager

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

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Certificate of Analysis

Final Report

Laboratory Order ID 13030225

Client Name: Wheelabrator Technologies
3809 Elm Avenue
Portsmouth, VA 23704

Date Received: March 14, 2013
Date Issued: March 21, 2013

Submitted To: Jeff Landrum
Client Site I.D.: RDF

Project Number: NA
Purchase Order: NA

Analytical Results

Sample I.D.: Outfall 001 #5884
Date/Time Sampled: 03/12/13 08:05

Laboratory Sample I.D.: 13030225-001

Parameter	Method	Sample Results	Qual	Rep Limit	Samp Prep Date/Time	Analysis Date/Time	Analyst
TPH-Volatiles (GRO)	SW8015C	< 0.5 mg/L		0.5	03/20/2013 02:19	03/20/2013 02:19	DMB
TPH-Semi-Volatiles (DRO)	SW8015C	5.7 mg/L		0.5	03/18/2013 09:30	03/19/2013 02:24	JHV
COD	SM18/5220D	447 mg/L		10	03/20/2013 09:18	03/20/2013 09:18	RAC2
Nitrate+Nitrite	SM18/4500-NO3 F	0.68 mg/L		0.1	03/18/2013 17:52	03/18/2013 17:52	TLA
Phosphorus, Total	SM18/4500-P E	0.89 mg/L		0.01	03/18/2013 11:30	03/18/2013 11:30	RAC2
TKN	EPA351.2/R2.0	10.1 mg/L		0.2	03/19/2013 12:13	03/19/2013 12:13	
Nitrogen, Total	Calc.2	10.8 mg/L		0.2	03/18/2013 17:52	03/18/2013 17:52	TLA
TSS	SM18/2540D	114 mg/L		1	03/16/2013 12:35	03/16/2013 12:35	HWT

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Certificate of Analysis

Final Report

Laboratory Order ID 13030225

Client Name: Wheelabrator Technologies
3809 Elm Avenue
Portsmouth, VA 23704

Date Received: March 14, 2013
Date Issued: March 21, 2013

Submitted To: Jeff Landrum

Project Number: NA

Client Site I.D.: RDF

Purchase Order: NA

Summary of Analytical QC Batches

QC Batch ID	Method	Sample List		
QC130319003	SW8015C	13030225-001		
QC ID	Parameter		Qualifier	Comments
LCSD	TPH-Semi-Volatiles (DRO)		P	
QC130319007	SM18/4500-P E	13030225-001		
QC130319012	EPA351.2/R2.0	13030225-001		
QC130319014	SM18/2540D	13030225-001		
QC ID	Parameter		Qualifier	Comments
LCSD	TSS		P	
QC130320015	SM18/4500-NO3 F	13030225-001		
QC130321006	SW8015C	13030225-001		
QC130321015	SM18/5220D	13030225-001		
QC ID	Parameter		Qualifier	Comments
MS	COD		M	Matrix interference; diluted matrix spike within QC limits
MSD	COD		M	Matrix interference; diluted matrix spike within QC limits

Qualifier Defination

Qualifier	Description
M	Matrix spike recovery is outside established acceptance limits.
P	Duplicate analysis does not meet the acceptance criteria for precision

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Air Water & Soil Laboratories, Inc.
2109 A. North Hamilton Street
Richmond, Virginia 23230
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(804) 358-8297 - Fax

Analysis Certifications Report

Client Name: Wheelabrator Technologies
Client Site ID: RDF
Submitted To: Jeff Landrum

Date Issued: 03/21/2013

Order ID: 13030225

Parameter	Method	VA-NP
COD	SM18/5220D	X
Nitrate+Nitrite	SM18/4500-NO3 F	X
Nitrogen, Total	Calc.2	X
Phosphorus, Total	SM18/4500-P E	X
TKN	EPA351.2/R2.0	X
TPH-Semi-Volatiles (DRO)	SW8015C	X
TPH-Volatiles (GRO)	SW8015C	X
TSS	SM18/2540D	X

"X" denotes that the associated parameter is certified or accredited under the program indicated in the column header.

VA-NP = VELAP Non-Potable Water: Virginia DGS Division of Consolidated Laboratory Services(460021)

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(804)358-8297 FAX

CHAIN OF CUSTODY

CLIENT NAME:	Wheelabrator Portsmouth Inc	PROJECT NAME:	VPDES Quarterly Stormwater Monitoring RDF
CLIENT CONTACT:	Jeff Landrum	SITE NAME:	RDF
CLIENT ADDRESS:	3809 Elm Avenue, Portsmouth, VA 23704	PROJECT NUMBER:	
CLIENT PHONE NUMBER:	(757) 393-3105	P.O. NUMBER:	
CLIENT FAX NUMBER:	(757) 393-3178	EMAIL: jlandrum@wm.com	REGULATORY AUTHORITY: VDEQ
Is sample for compliance reporting? YES	Is sample from a chlorinated supply? NO	PWS I.D. #:	
SAMPLER NAME (PRINT): Jeff Landrum	SAMPLER SIGNATURE:	Turn Around Time: 5 Day(s)	

Have ammonia and TKN samples been verified to be dechlorinated at the time of sampling? YES NO

CLIENT SAMPLE I.D.	Composite Start Date	Composite Start Time	Grab Date or Composite Stop Date	Grab Time or Composite Stop Time	Number of Containers	Grab	Composite	Field Filtered (Dissolved Metals)	MATRIX: Ground Water / Surface Water	MATRIX: Waste Water / Storm Water	MATRIX: Drinking Water	MATRIX: Soil	MATRIX: Solids	MATRIX: Other ____	ANALYSIS: TPH GRO 8015B (HCL)	ANALYSIS: TPH DRO 8015B (HCL)	ANALYSIS: TSS	ANALYSIS: COD (H2SO4)	ANALYSIS: Total Nitrogen (H2SO4)	ANALYSIS: Total Phosphorus (H2SO4)	ANALYSIS:	COMMENTS
1) Outfall 001 # 5884	-	-	3/12/13	0755	5	x				x					x	x	x	x	x	x		Total flow for rain event: ____ MG pH: 6.61 Temp: 14.3 Grab time: 0806 Analysis time: 0816 PLEASE NOTE PRESERVATIVE(S) or PUMP RATE (L/min)
2)																						
3)																						
4)																						
5)																						
6)																						
7)																						
8)																						
9)																						
10)																						

RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME
[signature]	3-14-13 0824	[signature]	3-14-13 824
RELINQUISHED: Courier	DATE / TIME	RECEIVED: [signature]	DATE / TIME: 13:30
RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME

QC Data Package
Level I ☐
Level II ☐
Level III ☐
Level IV ☐

LAB USE ONLY COOLER TEMP 3.4 °C

13030225

SPSA-PP
RDF

13030225
DUE: 5 Days
Recd: 03/14/13

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Certificate of Analysis

Final Report

Laboratory Order ID 13D0090

Client Name:	Wheelabrator Technologies 3809 Elm Avenue Portsmouth, VA 23704	Date Received:	April 5, 2013 14:15
		Date Issued:	April 12, 2013 19:04
		Project Number:	[none]
Submitted To:	Jeff Landrum	Purchase Order:	
Client Site I.D.:	SW Permit RDE & WTE		

Enclosed are the results of analyses for samples received by the laboratory on 04/05/2013 14:15. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

Ted Soyars

Laboratory Manager

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

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AIR WATER & SOIL LABORATORIES, INC.

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Certificate of Analysis

Final Report

Laboratory Order ID 13D0090

Client Name:	Wheelabrator Technologies 3809 Elm Avenue Portsmouth VA, 23704	Date Received: Date Issued:	April 5, 2013 14:15 April 12, 2013 19:04
Submitted To:	Jeff Landrum	Project Number:	[none]
Client Site I.D.:	SW Permit RDE & WTE	Purchase Order:	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
#S901	13D0090-01	Waste Water	04/04/2013 23:45	04/05/2013 14:15
#S904	13D0090-02	Waste Water	04/04/2013 23:58	04/05/2013 14:15

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Certificate of Analysis

Final Report

Laboratory Order ID 13D0090

Client Name:	Wheelabrator Technologies 3809 Elm Avenue Portsmouth VA, 23704	Date Received:	April 5, 2013 14:15
		Date Issued:	April 12, 2013 19:04
Submitted To:	Jeff Landrum	Project Number:	[none]
Client Site I.D.:	SW Permit RDE & WTE	Purchase Order:	

Analytical Results

Sample I.D. #S901 **Laboratory Sample ID:** 13D0090-01

Date/Time Sampled: 04/04/2013 23:45

Parameter	Method	Result	Qual	Reporting Limit	Sample Prep Date/Time	Analysis Date/Time	Analyst
Wet Chemistry Analysis							
BOD	SM18/5210B	<2.0 mg/L		2.0	04/05/2013 14:45	04/10/2013 16:36	RAC
Nitrate+Nitrite as N	SM18/4500-NO3 F	**0.33 mg/L**		0.10	04/11/2013 13:10	04/11/2013 13:10	NMK
Nitrogen, Total	Calc.	**1.12 mg/L**		0.60	04/11/2013 13:10	04/11/2013 13:10	NMK
Phosphorus as P	SM18/4500-P E	**0.16 mg/L**		0.01	04/09/2013 10:00	04/09/2013 10:00	RAC
TKN as N	EPA351.2/R2.0	**0.79 mg/L**		0.50	04/08/2013 10:28	04/09/2013 12:09	NMK

Analytical Results

Sample I.D. #S904 **Laboratory Sample ID:** 13D0090-02

Date/Time Sampled: 04/04/2013 23:58

Parameter	Method	Result	Qual	Reporting Limit	Sample Prep Date/Time	Analysis Date/Time	Analyst
Wet Chemistry Analysis							
BOD	SM18/5210B	> 62.5 mg/L		2.0	04/05/2013 14:49	04/10/2013 16:36	RAC
Oil and Grease	EPA1664A	**14.8 mg/L**		5.0	04/09/2013 10:35	04/09/2013 10:35	TLA

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Certificate of Analysis

Final Report

Laboratory Order ID 13D0090

Client Name:	Wheelabrator Technologies 3809 Elm Avenue Portsmouth VA, 23704	Date Received: Date Issued:	April 5, 2013 14:15 April 12, 2013 19:04
Submitted To:	Jeff Landrum	Project Number:	[none]
Client Site I.D.:	SW Permit RDE & WTE	Purchase Order:	

Summary of Analytical QC Batches

QC Batch ID	Method	Sample List
[CALC]	Calc.	13D0090-01
BWD0140	EPA351.2/R2.0	13D0090-01,13D0090-01RE1
BWD0193	SM18/4500-P E	13D0090-01
BWD0195	EPA1664A	13D0090-02
BWD0198	SM18/5210B	13D0090-01,13D0090-02
BWD0215	SM18/4500-NO3 F	13D0090-01

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Certificate of Analysis

Final Report

Laboratory Order ID 13D0090

Client Name:	Wheelabrator Technologies 3809 Elm Avenue Portsmouth VA, 23704	Date Received: Date Issued:	April 5, 2013 14:15 April 12, 2013 19:04
Submitted To:	Jeff Landrum	Project Number:	[none]
Client Site I.D.:	SW Permit RDE & WTE	Purchase Order:	

Wet Chemistry Analysis - Quality Control

Air Water & Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BWD0140 - No Prep Wet Chem										
Blank (BWD0140-BLK1)				Prepared: 04/08/2013 Analyzed: 04/09/2013						
TKN as N	<0.50 mg/L	0.50	mg/L							
LCS (BWD0140-BS1)				Prepared: 04/08/2013 Analyzed: 04/09/2013						
TKN as N	10.2 mg/L	0.50	mg/L	10.0		102	90-110			
LCS Dup (BWD0140-BSD1)				Prepared: 04/08/2013 Analyzed: 04/09/2013						
TKN as N	9.79 mg/L	0.50	mg/L	10.0		97.9	90-110	4.09	20	
Duplicate (BWD0140-DUP1)		**Source: 13D0111-01**		Prepared: 04/08/2013 Analyzed: 04/09/2013						
TKN as N	2.18 mg/L	0.50	mg/L		2.17 mg/L			0.322	20	
Matrix Spike (BWD0140-MS1)		**Source: 13D0054-01**		Prepared: 04/08/2013 Analyzed: 04/09/2013						
TKN as N	8.49 mg/L	0.50	mg/L	10.0	<0.50 mg/L	84.9	90-110			M
Matrix Spike Dup (BWD0140-MSD1)		**Source: 13D0054-01**		Prepared: 04/08/2013 Analyzed: 04/09/2013						
TKN as N	8.66 mg/L	0.50	mg/L	10.0	<0.50 mg/L	86.6	90-110	1.98	20	M
Batch BWD0193 - No Prep Wet Chem										
Blank (BWD0193-BLK1)				Prepared & Analyzed: 04/09/2013						
Phosphorus as P	<0.01 mg/L	0.01	mg/L							
LCS (BWD0193-BS1)				Prepared & Analyzed: 04/09/2013						
Phosphorus as P	0.44 mg/L	0.01	mg/L	0.500		87.7	80-120			
LCS Dup (BWD0193-BSD1)				Prepared & Analyzed: 04/09/2013						
Phosphorus as P	0.48 mg/L	0.01	mg/L	0.500		96.9	80-120	9.98	20	

AIR WATER & SOIL LABORATORIES, INC.

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Certificate of Analysis

Final Report

Laboratory Order ID 13D0090

Client Name:	Wheelabrator Technologies 3809 Elm Avenue Portsmouth VA, 23704	Date Received: Date Issued:	April 5, 2013 14:15 April 12, 2013 19:04
Submitted To:	Jeff Landrum	Project Number:	[none]
Client Site I.D.:	SW Permit RDE & WTE	Purchase Order:	

Wet Chemistry Analysis - Quality Control

Air Water & Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BWD0193 - No Prep Wet Chem										
Matrix Spike (BWD0193-MS1)		**Source: 13D0005-01**		Prepared & Analyzed: 04/09/2013						
Phosphorus as P	0.53 mg/L	0.01	mg/L	0.500	0.07 mg/L	92.0	70-130			
Matrix Spike Dup (BWD0193-MSD1)		**Source: 13D0005-01**		Prepared & Analyzed: 04/09/2013						
Phosphorus as P	0.55 mg/L	0.01	mg/L	0.500	0.07 mg/L	95.8	70-130	3.53	20	
Batch BWD0195 - No Prep Wet Chem										
Blank (BWD0195-BLK1)				Prepared & Analyzed: 04/09/2013						
Oil and Grease	<5.0 mg/L	5.0	mg/L							
LCS (BWD0195-BS1)				Prepared & Analyzed: 04/09/2013						
Oil and Grease	42.2 mg/L	5.0	mg/L	40.0		106	78-114			
LCS Dup (BWD0195-BSD1)				Prepared & Analyzed: 04/09/2013						
Oil and Grease	38.6 mg/L	5.0	mg/L	40.0		96.5	78-114	8.91	20	
Matrix Spike (BWD0195-MS1)		**Source: 13D0054-02**		Prepared & Analyzed: 04/09/2013						
Oil and Grease	40.8 mg/L	5.0	mg/L	40.0	<5.0 mg/L	102	78-114			
Batch BWD0198 - No Prep Wet Chem										
Blank (BWD0198-BLK1)				Prepared: 04/05/2013 Analyzed: 04/10/2013						
BOD	<2.0 mg/L	2.0	mg/L							
LCS (BWD0198-BS1)				Prepared: 04/05/2013 Analyzed: 04/10/2013						
BOD	170 mg/L	2.0	mg/L	198		85.9	84.6-115.4			

AIR WATER & SOIL LABORATORIES, INC.

2109A North Hamilton Street • Richmond, Virginia 23230 • Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 13D0090

Client Name:	Wheelabrator Technologies 3809 Elm Avenue Portsmouth VA, 23704	Date Received: Date Issued:	April 5, 2013 14:15 April 12, 2013 19:04
Submitted To:	Jeff Landrum	Project Number:	[none]
Client Site I.D.:	SW Permit RDE & WTE	Purchase Order:	

Wet Chemistry Analysis - Quality Control

Air Water & Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BWD0198 - No Prep Wet Chem										
Duplicate (BWD0198-DUP1)		**Source: 13D0005-01**		Prepared: 04/05/2013 Analyzed: 04/10/2013						
BOD	<2.0 mg/L	2.0	mg/L		<2.0 mg/L			NA	20	
Batch BWD0215 - No Prep Wet Chem										
Blank (BWD0215-BLK1)				Prepared & Analyzed: 04/11/2013						
Nitrate+Nitrite as N	<0.10 mg/L	0.10	mg/L							
LCS (BWD0215-BS1)				Prepared & Analyzed: 04/11/2013						
Nitrate+Nitrite as N	2.33 mg/L	0.10	mg/L	2.50		93.2	80-120			
LCS Dup (BWD0215-BSD1)				Prepared & Analyzed: 04/11/2013						
Nitrate+Nitrite as N	2.32 mg/L	0.10	mg/L	2.50		92.7	80-120	0.559	20	
Duplicate (BWD0215-DUP1)		**Source: 13D0003-01**		Prepared & Analyzed: 04/11/2013						
Nitrate+Nitrite as N	0.15 mg/L	0.10	mg/L		0.14 mg/L			1.38	20	
Matrix Spike (BWD0215-MS1)		**Source: 13D0141-01**		Prepared & Analyzed: 04/11/2013						
Nitrate+Nitrite as N	3.07 mg/L	0.10	mg/L	2.50	0.20 mg/L	115	75-125			
Matrix Spike Dup (BWD0215-MSD1)		**Source: 13D0141-01**		Prepared & Analyzed: 04/11/2013						
Nitrate+Nitrite as N	3.07 mg/L	0.10	mg/L	2.50	0.20 mg/L	115	75-125	0.0652	20	

AIR WATER & SOIL LABORATORIES, INC.

2109A North Hamilton Street • Richmond, Virginia 23230 • Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 13D0090

Client Name:	Wheelabrator Technologies 3809 Elm Avenue Portsmouth VA, 23704	Date Received: Date Issued:	April 5, 2013 14:15 April 12, 2013 19:04
Submitted To:	Jeff Landrum	Project Number:	[none]
Client Site I.D.:	SW Permit RDE & WTE	Purchase Order:	

Certified Analyses included in this Report

Analyte	Certifications
EPA1664A in Non-Potable Water	
Oil and Grease	VELAP,NC
EPA351.2/R2.0 in Non-Potable Water	
TKN as N	VELAP
SM18/4500-NO3 F in Non-Potable Water	
Nitrate+Nitrite as N	VELAP
SM18/4500-P E in Non-Potable Water	
Phosphorus as P	VELAP
SM18/5210B in Non-Potable Water	
BOD	VELAP

Code	Description	Number	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2013
NC	North Carolina DENR	495	12/13/2013
VELAP	NELAC-Virginia	460021	06/15/2013
WVDEP	West Virginia DEP	350	11/01/2013

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Qualifiers and Definitions

> 62.5	> 62.5
M	Matrix spike recovery is outside established acceptance limits
RPD	Relative Percent Difference
Qual	Qualifers
-RE	Denotes sample was re-analyzed

![AIR WATER & SOIL LABORATORIES, INC. logo]

2109A NORTH HAMILTON STREET
RICHMOND, VIRGINIA 23230
(804) 358-8295 PHONE
(804)358-8297 FAX

CHAIN OF CUSTODY

COMPANY NAME: Wheelabrator Portsmouth	INVOICE TO:	PROJECT NAME/Quote #: [illegible]
CONTACT: Joe Landrum	INVOICE CONTACT:	SITE NAME: RDF + WTE
ADDRESS: 3809 Elm Ave Portsmouth VA	INVOICE ADDRESS:	PROJECT NUMBER:
PHONE #: 757.393.3100	INVOICE PHONE #:	P.O. #:
FAX #: x3158	EMAIL: jlandrum@wm.com	Pretreatment Program:
Is sample for compliance reporting? (YES) NO	Is sample from a chlorinated supply? YES (NO)	PWS I.D. #:
SAMPLER NAME (PRINT): Joe Landrum	SAMPLER SIGNATURE: [signature]	Turn Around Time: [illegible] Day(s)

Matrix Codes: WW=Waste Water/Storm Water GW=Ground Water DW=Drinking Water S=Soil/Solids OR=Organic A=Air WP=Wipe OT=Other

CLIENT SAMPLE I.D.	Grab	Composite	Field Filtered (Dissolved Metals)	Composite Start Date	Composite Start Time	Grab Date or Composite Stop Date	Grab Time or Composite Stop Time	Time Preserved	Matrix (See Codes)	Number of Containers	ANALYSIS / (PRESERVATIVE): BOD 5	Total Phosphorus (H2SO4)	Total Nitrogen (H2SO4)	O+G (HCL)					COMMENTS
1) # [illegible]	✓			—	—	4/4/13	2345	2:30	WW		X	X	X						WTE
2) # [illegible]	✓			—	—	4/4/13	2355	2:30	WW		X			X					RDF
3)																			
4)																			
5)																			
6)																			
7)																			
8)																			
9)																			
10)																			

COMMENTS: Preservative Codes: N=Nitric Acid C=Hydrochloric Acid S=Sulfuric Acid H=Sodium Hydroxide A=Ascorbic Acid Z=Zinc Acetate T=Sodium Thiosulfate M=Methanol

PLEASE NOTE PRESERVATIVE(S), INTERFERENCE CHECKS or PUMP RATE (L/min)

RELINQUISHED:	DATE / TIME	RECEIVED:	DATE / TIME
[signature]	4/5/13 0910	[signature]	4-5-13 910
Courier		[signature]	4/5/13 1415

QC Data Package: Level I ☐ Level II ☐ Level III ☐ Level IV ☐

LAB USE ONLY — COOLER TEMP 2.6 °C

SPSA-PP 13D0090
VPDES Quarterly Stormwater Mo[n]
Recd: 04/05/2013 Due: 04/12/2013

AWS COC_v111213.xls

AUTHORIZATION TO BILL APPLICANT FOR A PUBLIC NOTICE FOR Wheelabrator Portsmouth Incorporated – RDF Facility RE: PERMIT NO. VA0089923

I hereby authorize the Department of Environmental Quality to have the cost of publishing a public notice billed to the Agent/Department shown below. The public notice will be published once a week for two consecutive weeks in the: The Virginia Pilot

Agent/Department to be billed: Jeanette McKinney

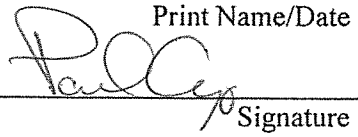
Applicant's Address: 3809 Elm Ave
Portsmouth, VA 23704

Agent's Telephone No: 757-393-3129

I AM ALSO AUTHORIZING THE VIRGINIA PILOT TO SEND THE AFFIDAVIT TO:

DEQ TIDEWATER REGIONAL OFFICE
WATER PERMITS – ATTN: COLLEEN PORTER
5636 SOUTHERN BOULEVARD
VIRGINIA BEACH, VA 23462

Authorizing Agent/Date Signed: Paul Grego / 04/22/2013
Print Name/Date Signed

Authorizing Agent's Signature

Signature

Authorizing Agent's E-Mail Address: pgrego@wm.com

RETURN COMPLETED FORM TO: DEQ – Tidewater Regional Office
Water Permits - Attn: Colleen Porter
5636 Southern Boulevard
Virginia Beach, VA 23462

Cc: **(DEQ FILE ECM)**

VPDES/VPA Permit Billing Information Form
for Annual Maintenance Fee

Facility Name: Wheelabrator Portsmouth Inc

Permit Number: VA0089923

Person / Organization to be billed: Jeanette McKinney

Billing Address: 3809 Elm Ave

Porsmouth VA 23704

Billing Contact Name: Jeanette McKinney

Title: Plant Controller

Phone Number: 757-393-3129

E-Mail Address: jmckinne@wm.com

VPDES Permit Application Addendum

1. **Entity to whom the permit is to be issued:** Wheelabrator Portsmouth Inc

Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or may not be the facility or property owner.

2. **Is this facility located within city or town boundaries?** Yes ☒ No ☐

3. **Provide the tax map parcel number for the land where the discharge is located.** 20000020 and 03870070

4. **For the facility to be covered by this permit, how many acres will be disturbed during the next five years due to new construction activities?** 0

5. **What is the design average effluent flow of this facility?** .03 MGD

For industrial facilities, provide the max. 30-day average production level, include units:
RDF 3,461 Tons Per Day MSW Received , WTE 1,033 Mega Watt Hours Generated

In addition to the design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? Yes ☐ No ☒
If "Yes", please identify the other flow tiers (in MGD) or production levels:

Please consider the following questions for both the flow tiers and the production levels (if applicable): Do you plan to expand operations during the next five years? Is your facility's design flow considerably greater than your current flow?

6. **Nature of operations generating wastewater:**
Storm water Runoff

0 % of flow from domestic connections/sources

Number of private residences to be served by the treatment works: 0

0 % of flow from non-domestic connections/sources

7. **Mode of discharge:** ☐ Continuous ☒ Intermittent ☐ Seasonal
Describe frequency and duration of intermittent or seasonal discharges:
Flow occurs during rain events only.

8. **Identify the characteristics of the receiving stream at the point just above the facility's discharge point:**

x Permanent stream, never dry
___ Intermittent stream, usually flowing, sometimes dry
___ Ephemeral stream, wet-weather flow, often dry
___ Effluent-dependent stream, usually or always dry without effluent flow
___ Lake or pond at or below the discharge point
___ Other:

9. **Approval Date(s):**
O & M Manual NA **Sludge/Solids Management Plan** NA

Have there been any changes in your operations or procedures since the above approval dates? Yes ☐ No ☐